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TRANSMITTAL		Filing Date	04/27/2006	6		
FORM		First Named Inventor	John F. Ry	an		
		Art Unit				-
(to be used for all correspondence after initia	I filing)	Examiner Name				
Total Number of Pages in This Submission	5	Attorney Docket Number	RYA06-00	01		
	ENC	LOSURES (Check a	ll that apply)		
Fee Transmittal Form Fee Attached		Drawing(s) Licensing-related Papers		Ar of	ppea App	Illowance Communication to TC I Communication to Board eals and Interferences I Communication to TC
Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request		Petition Petition to Convert to a Provisional Application Power of Attorney, Revocat Change of Correspondence Terminal Disclaimer Request for Refund		Pr	ppea roprie tatus	I Notice, Brief, Reply Brief) etary Information Letter Enclosure(s) (please Identify
Information Disclosure Statement Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remai	CD, Number of CD(s) Landscape Table on C				.,
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Sheet 1

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form 1449/PTO	Col	mplete if Known	
	Application Number	10/595,539	
MATION DISCLOSURE	Filing Date	04/27/2006	
	First Named Inventor	John F. Ryan	
EMENT BY APPLICANT	Art Unit		
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of 4	Attorney Docket Number	RYA06-0001	フ

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	ļ	Number-Kind Code ^{2 (If known)}			Figures Appear
		^{US-} 2003/08181576	09/25/2003	Melchiors et al.	
		^{US-} 2003/0170397	09/11/2003	Campbell et al.	
		^{US-} 2003/0170395	09/11/2003	Highcock et al.	
		^{US-} 2003/0045653	03/06/2003	Flosbach et al.	
		^{US-} 2003/0031804	02/13/2003	Rekowski et al.	
<u></u>		^{US-} 2003/0032719	02/13/2003	Sapper	
-		^{US-} 2002/0197411	12/26/2002	Colyer et al.	
		^{US-} 2002/0193504	12/19/2002	Brueck et al.	
	1	^{US-} 2002/0176982	11/28/2002	Rohrbaugh et al.	
		^{US-} 2002/0102359	08/01/2002	Rohrbaugh et al.	
		^{US-} 2002/0086115	07/04/2002	Lamers et al.	***
		^{US-} 2002/0028288	03/07/2002	Rohrbaygh et al.	
		^{US-} 2002/0015795	02/07/2002	Toui et al.	
		us- 6,623,795	09/23/2003	Yamada et al.	
		^{US-} 6,620,511	09/16/2003	Wigger et al.	
	1	^{US-} 6,592,944	07/15/2003	Uhlianuk et al.	
		^{US-} 6,545,117	04/08/2003	Moos et al.	
		^{US-} 6,544,593	04/08/2003	Nagata et al.	
		^{US-} 6,531,188	03/11/2003	Maag et al.	

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (if known)	MM-DD-YYYY	Or Relevant Figures Appear	T ⁶	
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Sheet 2

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Complete if Known		
Application Number	10/595,539	
Filing Date	04/27/2006	
First Named Inventor	John F. Ryan	
Art Unit		
Examiner Name		
Attorney Docket Number	RYA06-0001	

			U. S. PATEN	DOCUMENTS	
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		^{US-} 6,436,477	08/20/2002	Laginess et al.	
		^{US-} 6,432,484	08/13/2002	Corcorran et al.	
		^{US-} 6,419,989	07/16/2002	Betz et al.	
		^{US-} 6,329,491	122/11/2001	Mormile et al.	
		^{US-} 6,326,059	12/04/2001	Lewin et al.	
		^{US-} 6,319,557	11/20/2001	Ikushima et al.	
		^{US-} 6,309,707	10/30/2001	Mayer et al.	
		^{US-} 6,120,851	09/19/2000	Borgholte et al.	
		^{US-} 6,113,988	09/05/2000	Borgholte et al.	
		^{US-} 6,103.387	08/15/2000	Yamamoto et al.	
		^{US-} 6,099,912	08/08/2000	Borgholte et al.	
		^{US-} 5,977,285	11/02/1999	Ernst Moos et al.	
		^{US-} 5,907,024	05/25/1999	Ohrbom et al.	
		^{US-} 5,853,809	12/29/1998	Campbell et al.	
		^{US-} 5,759,631	06/02/1998	Rink et al.	
		^{US-} 5,747,166	05/05/1998	Schwarte et al.	
		^{US-} 5,731,089	03/24/1998	Kunikiyo et al.	
_		^{US-} 5,643,635	07/01/1997	Ahn et al.	
		^{US-} 5,597,861	01/28/1997	Nakae et al.	

		FORE	GN PATENT DOCU	MENTS		
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Application Number 10/595,539

Filing Date 04/27/2006

First Named Inventor John F. Ryan

Art Unit

Examiner Name

Attorney Docket Number RYA06-0001

U. S. PATENT DOCUMENTS Pages, Columns, Lines, Where Examiner Cite Document Number Publication Date Name of Patentee or Relevant Passages or Relevant Initials* MM-DD-YYYY Applicant of Cited Document Figures Appear Number-Kind Code² (# known) ^{US-} 5,580,660 12/03/1996 Witte et al. ^{US-} 5.520,963 Liu 05/28/1996 ^{US-} 5,486,384 Bastian et al. 01/23/1996 ^{US-} 5,380,565 01/10/1995 Gross et al. ^{US-} 5,322,715 06/21/1994 Jouck et al. ^{US-} 5.064.688 11/12/1991 Trifon ^{US-} 4,971,837 11/20/1990 Martz et al. ^{US-} 4.789,566 12/06/1988 Tatsuno et al. ^{US-} 4,632,848 Gosset et al. 12/30/1986 ^{US-} 4,533,703 08/06/1985 Kordomenos et al. ^{US-} 4,268,547 05/19/1981 Backhouse ^{US-} 6,601,733 Schnacky et al. 08/05/2003 US- 6,409,098 06/25/2002 Lewis et al. US- 6,383,572 05/07/2002 De Graaf et al. us- 6,250,567 06/26/2001 Lewis et al. US- 5,820,925 10/13/1998 Fenn et al. ^{US-} 5,810,254 Kropfield 09/22/1998 US- 5,425,968 06/20/1995 Larson ^{US-} 5,260,101 11/09/1993 Larson et al.

		FORE	IGN PATENT DOCU	MENTS		
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		^{US-} 5,092,492	03/03/1992	Centea	
		^{US-} 4,809,909	03/07/1989	Kukesh	
		^{US-} 4,019,653	04/26/1977	Scherer et al.	
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